

**ABSTRACT OF THE DISCLOSURE**

- A process assigns frequency channels to service communications in a cellular wireless system. The process includes performing a simulation of the system to produce a plurality of lists of channel rankings and assigning the lists of produced channel
- 5 rankings to the base stations for use in assigning channels to service communications with mobile units. The simulation evolves the lists of channel rankings according to an algorithm that dynamically reduces inter-communication interference. Individual lists of channel rankings prioritize the channels for servicing communications by associated individual base stations.

T09020-4200660